INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2004/008212

			2004/008212
A. CLASSIFIC Int.C1 ⁷	CATION OF SUBJECT MATTER C23C26/00, B22D29/00, B23H5/	00, C21D9/50	
According to Inte	ernational Patent Classification (IPC) or to both national	al classification and IPC	
B. FIELDS SE.			
Minimum docum Int.Cl ⁷	centation searched (classification system followed by cl C23C26/00, B22D29/00, B23H5/0	assification symbols) 00, C21D9/50, B23K9/04,	B23K35/02
Documentation s	earched other than minimum documentation to the exte	ent that such documents are included in the	e fields searched
Jitsuyo Kokai Ji	Shinan Koho 1922-1996 To Itsuyo Shinan Koho 1971-2004 Ji	oroku Jitsuyo Shinan Koho tsuyo Shinan Toroku Koho	1994–2004 1996–2004
Electronic data b	ase consulted during the international search (name of	data base and, where practicable, search to	erms used)
C. DOCUMEN	ITS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.
Y	JP 9-192937 A (Research Deve	lopment Corp. of	1-21
	Japan), 29 July, 1997 (29.07.97), Claims 1, 9 & DE 19701170 A1 & CN & KR 217293 B	1161894 A	-
Y	JP 4-309452 A (General Elect 02 November, 1992 (02.11.92), Par. Nos. [0024] to [0030] & US 5071054 A & EP & CA 2056527 A		1-15
	cuments are listed in the continuation of Box C.	See patent family annex.	
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance		"T" later document published after the inte date and not in conflict with the applic the principle or theory underlying the in	ation but cited to understand
"E" earlier applic	cation or patent but published on or after the international	"X" document of particular relevance; the considered novel or cannot be considered.	dered to involve an inventive
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family	
"O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed			
Date of the actual completion of the international search 13 September, 2004 (13.09.04)		Date of mailing of the international search report 28 September, 2004 (28.09.04)	
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer	
Facsimile No.	0 (second sheet) (January 2004)	Telephone No.	

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		PCT/JP2004/0082J2	
(Continuation)	DOCUMENTS CONSIDERED TO BE RELEVANT	.5 <u>12</u>	<u>, , , , , , , , , , , , , , , , , , , </u>
Category*	Citation of document, with indication, where appropriate, of the relevant		Relevant to claim No.
Y	JP 62-161493 A (Mitsubishi Heavy Industr Ltd.), 17 July, 1987 (17.07.87), Claims; examples (Family: none)	ies,	1-21
Y	JP 61-17398 A (Sumitomo Metal Industries 25 January, 1986 (25.01.86), Claims; prior act (Family: none)	, Ltd.),	16-21
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